#### REMARKS

The application now includes claims 1-103. Claim 68 was amended.

In response to the restriction requirement applicants elect group 1, including claims 1-67, with partial traverse.

Claim 68 was amended to remove the term in vivo in order to emphasize the fact that claims 1 and 68 should be examined together.

Groups 1 and 2, including independent claims 1 and 68, respectively, relate to the same special technical feature and should be examined together. Following is a comparison of claims 1 and 68, which shows that claims 1 and 68 relate to the same special technical feature.

Claim 1 relates to: "a method of <u>training</u> a biological <u>neural network</u> using a controller", and claim 68 relates to: "Apparatus for <u>training</u> a <u>neural network</u>".

Claim 1 requires "<u>stimulating</u> a <u>neural network</u> by said controller applying at least an <u>input</u> signal to the network", and claim 68 requires "an input <u>stimulator</u> that generates an <u>input</u> stimulation to said network".

Claim 1 requires: "detecting an output response of the network by said controller", and claim 68 requires "a detector that detects at least an indication of a response of said network".

Claim 1 requires "modifying said stimulation by said controller for at least a period of time if said response matches a desired at least approximate response", and claim 68 requires: "a controller that selectively controls said input stimulator such that if a desired output is detected, said input stimulation is changed".

Accordingly, applicant requests that the Examiner examine claims 1-82.

An action on the merits is respectfully awaited.

Respectfully submitted, Shimon Marom, et al.

Yaakov Schatz Yaakov Schatz Reg. No. 44.320

January 6, 2005 William H. Dippert, Esq. Reed Smith LLP 599 Lexington Avenue, 29<sup>th</sup> Floor New York, NY 10022-7650 Tel: (212) 521-5400

## PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY				
Tg: PAUL FENSTER FENSTER & COMPANY PATENT ATTORNEY P.O. BOX 10256 PETACH TIKVA, ISRAEL 49002	PCT COMMUNICATION IN CASES FOR WHICH NO OTHER FORM IS APPLICABLE			
-	Date of Mailing (day/month/year) 25 Pebruary 2004 (25.02.2004)			
Applicant's or agent's file reference	REPLY DUE			
246/02624	see paragraph 1 below			
International application No.	International filing date			
PCT/IL02/00204	(day/month/year) 13 March 2002 (13.03.2002)			
Applicant	<u> </u>			
WIDE HORIZON HOLDINGS INC.				
1. REPLY DUE within months/days from the above date of mailing				
NO REPLY DUE				
2. COMMUNICATION:	•			
The International Preliminary Examination Report (IPER) mailed by the IPEA/US on 09 October 2003 failed to properly list the claims in Box V. Although claims 1-103 were indicated as meeting the criteria set out in PCT Articles 33(2)-(4) in the Citations and Explanations section of Box V, the Statement section of Box V contained inconsistent information. The Corrected IPER attached hereto includes the corrected listing of the claims in the Statement section of Box V. No other changes have been made.				
	<i>t</i>			
Name and mailing address of the IPEA/US	Authorized officer			
Mail Stop PCT, Artn: IPEA/US Commissioner for Patents				
F.O. Box 1450 Alexandria, Virginia 22313-1450	Harry C Kim L			
Facsimile No. (703)305-3230 Telephone No. 703-305-3257  orm PCT/IPEA/424 (January 1994)				

## PATENT COOPERATION TREATY

PCT

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

	Applicant's or agent's file reference 246/02624	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
	International application No.	International filing date (day/mon	ah/year) Priority date (day/month/year)			
	PCT/IL02/00204 International Palent Classification (IPC) of	13 March 2002 (13.03.2002)	13 March 2001 (13.03.2001)			
	1PC(7): A61B 5/00 and US Cl.: 600/554 Applicant	; 607/48; 128/925				
	WIDE HORIZON HOLDINGS INC.	<u>.</u>				
``	This international prelimin Examining Authority and i	ary examination report has been s transmitted to the applicant ac	n prepared by this International Preliminary ecording to Article 36.			
<del></del>	2. This REPORT consists of	ı total of $3$ sheets, including (	this cover sheet.			
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or which have been amended and are the basis for this report and/or sheets containing rectification before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under These annexes consist of a total of sheets.						
	3. This report contains indications relating to the following items:					
	I Basis of the repo	rt				
	II Priority		•			
	III Non-establishmer	of report with regard to move	lty, inventive step and industrial applicability			
•	IV Lack of unity of	Invention				
<del>)</del>	V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
	VI Certain documen	•"				
	VII Certain defects in					
	VIII Certain observations on the international application					
	Date of submission of the demand	Date o	f completion of this report			
	10 October 2002 (10.10.2002)		ust 2002 (08.08.2002)			
	Name and mailing address of the IPEA/US  Mail Stop PCT, Attn: IPEA/US	Authork	zed officer			
	Commissioner for Patents P.O. Box 1450	Carl H.	Layro Diane Smith of			
	Alexandria, Virginia 223 13-1450	Telepho	TRE No. (703) 308-3694			
	Facsimile No. (703)305-3230 Form PCT/IPEA/409 (cover sheet)(July 199	£ , <del>-</del>				

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International andiestica Na		
International application No.		
PCT/IL02/00204	÷	

I.	Basis of the report
l.	With regard to the elements of the international application:*
	the international application as originally filed.
	the description:
	pages 1-73 as originally filed pages NONE, filed with the demand
	pages NONE, filed with the letter of
	the claims:
	pages 74-83 as originally filed
	pages NONE , as amended (together with any statement) under Article 19 pages NONE , filed with the demand
	pages NONE, filed with the letter of
	fine drawings:
	pages 1-12 , as originally filed
	pages <u>NONE</u> , filed with the demand pages <u>NONE</u> , filed with the letter of
	the sequence listing part of the description; pages NONE as originally filed
	pages NONE , filed with the demand
	pages NONE, filed with the letter of
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.
•	These elements were available or furnished to this Authority in the following language which is:
İ	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
	the language of publication of the international application (under Rule 48.3(b)).
	the language of the translation furnished for the purposes of international preliminary examination (under Rules
1	55,2 and/or 55,3).
Į.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was catried out on the basis of the sequence listing:
1	contained in the international application in printed form.
	filed together with the international application in computer readable form.
j	furnished subsequently to this Authority in written form.
Ĭ	furnished subsequently to this Authority in computer readable form.
Ì	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the
•	international application as filed has been furnished.
	The statement that the information recorded in computer readable form is identical to the written sequence listing
	has been furnished.
ŧ. [	The amendments have resulted in the cancellation of:
	the description, pages NONH
	the claims, Nos. NONE
	the drawings, sheets/fig NONE
. [	This report has been established as if (some of) the amendments had not been made, since they have been considered to go
	beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(a)).**
, ,	eplacement sheets which have been firmished to the receiving Office in response to an invitation under Article 14 are referred to in report as "originally filed" and are not annexed to this report since they do not contain amendments. (Rules 70,16 and 70.17). my replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.
	DOTABLE AND ADD TO AND ADDRESS

Form PCT/IPEA/409 (Box I) (July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/IL02/00204

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. STATEMENT				
Novelty (N)	Claims 1-103	YES		
i i	Claims NONE	МО		
Inventive Step (IS)	Claims 1-103	YES		
-	Claims NONE	NO		
Industrial Applicability (IA)	Claims 1-103	YES		
	Claims NONE	NO		

#### 2. CITATIONS AND EXPLANATIONS

Claims 1, 6, 7, 9, 11, 14, 15, and 24 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest details reciting method steps used in training "biological" neural networks. The Tumey et al '896 patent describes the training of an 'electrical" neural network made up of electronic circuits rather than a "biological" one. The applicant's claims are all drawn to training the neural network within a person (i.e. comprising neurons).

Claims 2-5, 8, 10, 12, 13, 16-23, and 25-103 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest details regarding modifications in localized stimulation (claims 2-5,8), the application of magnetic, chemical, or electric field stimulations (claims 10,12,13), various neural network output responses (claims 16-23), in-vitro growth of a neural network (claims 25-28), various details regarding in-vivo growth of a neural network both in animals and humans (claims 29-99), and various aspects of training the neural network while a patient is drugged (claims 100-103).

Form PCT/IPEA/409 (Box V) (July 1998)